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**1** [Downlink scheduling in CDMA data networks](#)
[Niranjan Joshi](#), [Srinivas R. Kadaba](#), [Sarvar Patel](#), [Ganapathy S. Sundaram](#)  
 August 2000 **MobiCom '00**: Proceedings of the 6th annual international

**Publisher:** ACM [Request Permissions](#)

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 Additional Information: [full citation](#)
**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 43, Downloads

Packet data is expected to dominate third generation wireless networks and interesting problems. Physical and link layer issues have been studied

**2** [Online geometric reconstruction](#)
[Bernard Chazelle](#), [C. Seshadhri](#)

 June 2006 **SCG '06**: Proceedings of the twenty-second annual symposium

**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (247.88 KB)

 Additional Information: [full citation](#)
**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 27, Downloads

We investigate a new class of geometric problems based on the idea of geometric dataset though a query mechanism; for example, the dataset

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**Keywords:** computational geometry, sublinear algorithms

**3** [BugNet: Continuously Recording Program Execution for Deterministic](#)
[Satish Narayanasamy](#), [Gilles Pokam](#), [Brad Calder](#)

 June 2005 **ISCA '05**: Proceedings of the 32nd annual international symposium

**Publisher:** ACM

 Full text available: [Pdf](#) (204.07 KB)



 Additional Information: [full citation](#)
**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 117, Downloads

Significant time is spent by companies trying to reproduce and fix the bugs. We propose the BugNet architecture to continuously record information on program execution

Also published in:






 May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

**4** [Precise memory leak detection for java software using container profiling](#)
[Guoging Xu](#), [Atanas Rountev](#)

- May 2008 **ICSE '08**: Proceedings of the 30th international conference  
 **Publisher:** ACM  
 Full text available:  Pdf (565.72 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 132, Downloads (24 Months): 132

A memory leak in a Java program occurs when object references that are no longer needed are not garbage collected. These references are difficult to understand because static analyses typically cannot precisely detect them.

**Keywords:** container profiling, leaking confidence, memory leaks




- 5 [PeerReview: practical accountability for distributed systems](#)  
 [Andreas Haeberlen](#), [Petr Kouznetsov](#), [Peter Druschel](#)  
 October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposium on operating systems  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Flv (30:37 MIN),  Mp3 (12.86 MB),  Pdf (363.72 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 180, Downloads (24 Months): 180

We describe PeerReview, a system that provides accountability in distributed systems. In PeerReview, effects are observed by a correct node are eventually detected and irreversibly recorded.

**Keywords:** accountability, byzantine faults, distributed systems, fault containment




Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

- 6 [User interface façades: towards fully adaptable user interfaces](#)  
 [Wolfgang Stuerzlinger](#), [Olivier Chapuis](#), [Dusty Phillips](#), [Nicolas Roussel](#)  
 October 2006 **UIST '06**: Proceedings of the 19th annual ACM symposium on user interface software and technologies  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (1.95 MB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 251, Downloads (24 Months): 251

User interfaces are becoming more and more complex. Adaptable and adaptable user interfaces have been proposed and previous studies have shown that users prefer interfaces that they can adapt to their needs.

**Keywords:** adaptable user interfaces

- 7 [A regulated transitive reduction \(RTR\) for longer memory race records](#)  
 [Min Xu](#), [Mark D. Hill](#), [Rastislav Bodik](#)  
 November 2006 **ASPLOS-XII**: Proceedings of the 12th international conference on architecture for programming and operating systems  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (524.02 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 71, Downloads (24 Months): 71

Now at VMware. Multithreaded deterministic replay has important applications in debugging and testing.


analysis. Memory race recording is a key technology for multithreaded c

**Keywords:** determinism, multithreading, race recording

Also published in:

October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5  
 October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5  
 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

## 8 [Forward-secure signatures with untrusted update](#)

 [Xavier Boyen, Hovav Shacham, Emily Shen, Brent Waters](#)  
 October 2006 **CCS '06: Proceedings of the 13th ACM conference on Comp**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (261.19 KB)


Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 92, Downloa

In most forward-secure signature constructions, a program that update private key. Unfortunately, these schemes are incompatible with severa

**Keywords:** digital signatures, forward security, two-factor authenticati

## 9 [Performance debugging for distributed systems of black boxes](#)

 [Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Ati](#)  
 December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (408.85 KB)

Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 227, Downl

Many interesting large-scale systems are distributed systems of multiple to debug, especially when they exhibit poor performance. The problem I box" ...

**Keywords:** black box systems, distributed systems, performance analy

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

## 10 [Secure web service federation management using tpm virtualisation](#)

 [Srijith Krishnan Nair, Ivan Djordjevic, Bruno Crispo, Theo Dimitrakos](#)  
 November 2007 **SWS '07: Proceedings of the 2007 ACM workshop on Secu**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (382.31 KB)


Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 109, Downl

Web Services and SOA provide interoperability and architectural baselin where execution and use of the participating services contributes to the

**Keywords:** federation, membership management, security, trusted cor

**11** [Improved proxy re-encryption schemes with applications to secure d](#)

 Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger

February 2006 **Transactions on Information and System Security (TI**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (331.59 KB)


Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 176, Downl

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application cal  
converts a ciphertext for Alice into a ciphertext for Bob *without* seeing t

**Keywords:** Proxy re-encryption, bilinear maps, double decryption, key

**12** [FPGA-friendly code compression for horizontal microcoded custom I](#)

 Bitia Gorjiara, Daniel Gajski

February 2007 **FPGA '07:** Proceedings of the 2007 ACM/SIGDA 15th interr

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (347.47 KB)

Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 32, Downloa

Shrinking time-to-market and high demand for productivity has driven t  
start from high-level languages. However, meeting timing constraints o

**Keywords:** FPGA, dictionary-based compression, memory optimization

**13** [Shadow Profiling: Hiding Instrumentation Costs with Parallelism](#)

Tipp Moseley, Alex Shye, Vijay Janapa Reddi, Dirk Grunwald, Ramesh Peri

March 2007 **CGO '07:** Proceedings of the International Symposium on C

**Publisher:** IEEE Computer Society


Full text available:  Pdf (301.00 KB)

Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 128, Downlo

In profiling, a tradeoff exists between information and overhead. For ex  
but the information they collect is consequently very coarse. Other profi

**14** [CHI '06 extended abstracts on Human factors in computing systems](#)

 Gary Olson, Robin Jeffries

April 2006 **CHI '06:** CHI '06 extended abstracts on Human factors in c




**Publisher:** ACM

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl




Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will en  
have made. For the first time this year, we encouraged submissions fro

**15** [Combinators for bidirectional tree transformations: A linguistic appro](#)

-  [J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. P.](#)  
May 2007 **Transactions on Programming Languages and System**  
**Publisher:** ACM  [Request Permissions](#)  
Full text available:  [Pdf](#) (1.06 MB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 147, Downloads (24 Months): 147




We propose a novel approach to the *view-update problem* for tree-structured expressions. All expressions denote bidirectional transformations on trees. In one direction,

**Keywords:** Bidirectional programming, Harmony, XML, lenses, view updates

- 16** [A region-based compilation technique for dynamic compilers](#)  
 [Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani](#)  
January 2006 **Transactions on Programming Languages and System**  
**Publisher:** ACM  [Request Permissions](#)  
Full text available:  [Pdf](#) (977.63 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 107, Downloads (24 Months): 107




Method inlining and data flow analysis are two major optimization components that suffer from the existence of rarely or never executed code contained in

**Keywords:** JIT compiler, Region-based compilation, dynamic compilation

- 17** [Environment modification in a simulated human-robot interaction task](#)  
 [Robert St. Amant, David B. Christian](#)  
January 2003 **IUI '03: Proceedings of the 8th international conference on**  
**Publisher:** ACM  [Request Permissions](#)  
Full text available:  [Pdf](#) (135.21 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 12, Downloads (24 Months): 12

This paper describes a novel approach to human-robot interaction, in which the robot performs actions, rather than programming its controller. An HRI simulation of a


**Keywords:** external representation, human-robot interaction, simulation

- 18** [Time will tell: in-game social interactions that facilitate second language learning](#)  
 [Yolanda A. Rankin, Deidra Morrison, McKenzie McNeal, Bruce Gooch, Marc](#)  
April 2009 **FDG '09: Proceedings of the 4th International Conference on**  
**Publisher:** ACM  [Request Permissions](#)  
Full text available:  [Pdf](#) (329.98 KB) Additional Information: [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 111, Downloads (24 Months): 111

Prior research indicates that gameplay experiences attributed to Massively Multiplayer Online Role-Playing Games (MMORPGs) improve foreign language students' ability to communicate with players in the target

**Keywords:** collaborative gameplay, computer mediated communication, role playing games, second language acquisition, social computing, video

**19** [Respec: efficient online multiprocessor replay via speculation and ext](#)

 Dongyoon Lee, Benjamin Wester, Kaushik Veeraraghavan, Satish Narayan  
March 2010 **ASPLOS '10: Proceedings of the fifteenth edition of ASPLOS: operating systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (556.54 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 59, Downloads

Deterministic replay systems record and reproduce the execution of a hardware replay uniprocessor systems, replaying shared memory multiprocessor systems


**Keywords:** external determinism, replay, speculative execution

Also published in:

March 2010 **SIGARCH Computer Architecture News** Volume 38 Issue 1

March 2010 **SIGPLAN Notices** Volume 45 Issue 3

**20** [Cross-component energy management: Joint adaptation of processor](#)

 Xiaodong Li, Ritu Gupta, Sarita V. Adve, Yuanyuan Zhou  
September 2007 **Transactions on Architecture and Code Optimization**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (435.78 KB)

Additional Information: [full citation](#)




**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 69, Downloads

Researchers have proposed the use of adaptation to reduce the energy consumption of processor, memory, disk, and display for general-purpose applications.

**Keywords:** Energy management, adaptive systems, control algorithms, processor

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